class De	ny Date	Session	Attendance	window	Information and communication technology						
				Them	Theme 1						
				Lesson	Lesson 1						
				Subject	Explorer in Action						
Learning	outcomes	1) Expl 2) Exp	ains how digi lains the fea	ital technolo atures of o	he pupil should be able to: ogy helps us by making different tasks easier. digital citizenship. logy'' and give some examples.						
3) Describe "digital technology" and give some examples. • Take students to the lab and divide them into small groups. • Get to know the world and learn about its uses of digital technology.											
Knowledg	INTERESTAL		o know tne Book, EKB.		d learn about its uses of digital technology.						
Education					ational videos.						
Learning	strategies				discussion, research, and exploration.						
Warn	n Up				igital technology do you used every day? tal tools for?						
What Do you use the digital tools for? Scientists use digital technology in their work, such as the scientist "William Tyner": - Cultural anthropologist, technologist, filmmaker He uses different types of digital technology in many aspects of his works, He works to find real solutions to community problems in work He works with different organizations they help to put individuals in contact											
		with The Pos Helpi Digits	people or ser itive impacing people beal communication	t of technocome succession and happortant for	an help them. ological use: ssful digital citizens. elping people r exchange opinions						
Intro	duce	Ways to - bills - Visit - Trav	help digita Payment of ts: Booking to vel: Booking to wledge: Than	Il technolo f dues and f ickets to sor train, bus, a nks to the V	ogy citizens: inancial bills. me archaeological and cultural sites. and flight tickets. Website of the EKB nce of information it provides to all.						
			n about ho	w to use d	ools encourage students ** ligital responsibly, safely, and intelligently.						
Evalu	ation				f based on access to the learning on.						
outcomes associated with the lesson. Assessment Solve School Book Questions p. 12, p. 13.											

	class	Day	Date	Session	Attendance	window	Information and communication technology					
						Them	Theme 1					
						Lesson	Lesson 2					
						Subject	Digital Citizenship					
Learning outcomes At the end of the lesson the pupil should be able to: 1) Explains what it means to be a digital citizen. 2) Explains key concepts of digital citizenship. 3) Discusses how to use ICT tools in an ethically, responsibly, and safely.												
	Educational activities Take students to the lab and divide them into small groups. Explain the meaning of digital citizenship with a statement of rights and responsibilities to be adhered to.											
		ledge so utlonal			Book, EKB. er, schoolb		ational videos.					
		ing stra Varm U					discussion, research, and exploration. n to be a digital citizen?					
	• What do you think it mean to be a digital citizen? Digital Citizenship: The ability to use digital technology ethically, responsibly, and safely This helps you to enjoy and take advantage of digital technology. and protect your digital footprint we learned some techniques that are part digital citizenship, we learned how to: Be ethical and responsible by treating others online with respect.											
				Use ujUse thChoose	odate softwar the Internet sa the website Cootprint:	ce, creating fely by setti wisely and	sources references that we find online. ing strong passwords. monitoring online screen time.					
	I	ntroduc		The sites	others post a	rything you bout you. This is imp	post with others portant to share information,					
				1- Right:	hts and Res	sponsibilit your digital	ies of the Digital Citizen: Footprint or share it without your consent.					
				2- Right: Respo	engage with nsibilities: Po	others, pos ositive beha	t privacy, with the aim of sharing or selling it. ting positive ideas without offend other. vior with others, and it is better to be face to face. e respecting rights and crediting the resources.					
				4- Right:	Vo Use the Inte	erify the cro	aluate what will be viewing or shared, edibility of the source. needed, while respecting the law to use it in terms, its purpose, the degree of safety.					
	E-	valuatio):R		ent self-evalua	ates himself	in-person balance is important for your well-being. based on access to the learning					
	40.51	isessme			associated wool Book Que							

class	Day	Date	Session	Attendance	window	Information and communication technology				
					Them Lesson	Theme 1 Lesson 3				
					Subject	Positive Impact of ICT				
Learn	ing out	comes	1) Expla	ins how ICT	lesson tl	ne pupil should be able to: m socially, intellectually, and educationally. vernment providing safe and reliable digital resources.				
# 246	lucation activitie	WHEN THE SHAPE	 Discusses how technology provides support for people of determination. Take students to the lab and divide them into small groups. Clarify the role of ICT to serving the educational process. 							
Knowledge sources School Book, EKB. Educational means Computer, schoolbook, educational videos.										
H 3744 H 44 4 34		AND DESCRIPTION OF								
	ing stra Varm U					discussion, research, and exploration. e your life easier?	-8			
	K SHIRE REAL SPEC		Digital cit	izens can use	eIT tools to ent in 2018	learn, to share and communicate provided digital tools and resources that helped:				
			 Watch videos and channels of educational materials experts. Its gool is to implement a skills-based education and ensure that all students can access learning materials equally. The EKB hold webinar for teachers, students, and parents Egyption Knowledge Bonk							
			and it makes materials in digital library available to all. In addition to its importance in helping people with carefree people who suffer from: (a non-verbal person) Communicate and learn languages with others using photos. (Health or other issues) Provide ways to communicate with teachers while providing							
				als for learnin	ıg.	ways to communicate with teachers while providing				
	ntroduc	*	un	expected ev	ents affec	t us, making us unable to leave our homes				
			LearnShare	ring platform or teach new to skills online. deos you prep	things.					
			Socialzing Co Ca	nnect with oth n work outsid	ners online. e of the scho	ol on project, virtually.				
			• Joi One of th		t shares the s	same interests as sports and games. ations of digital communications				
			• So • vii	cial media pl tual meeting	atform (Fac s applicatio	cebook®). n (Skype®).				
#2	valuatio ssessme	9.00	outcomes	associated w	ith the lesso	based on access to the learning on. p. 20, p. 21.				
		08								

	class) () =	Date	Session	Attendence	window	Information and				
	ENNOG	#K#X	44,644	HEMIKE	**************************************	MATERITATION MA	communication technology				
(6,0)						Them Lesson	Theme 1 Lesson 4				
						Subject	Internet communication	-05			
				At the end	d of the lessor		should be able to:				
	Learn	ing out	comes	1) Discuss	es how to use t	the Internet	to communicate with friends, family, and other citizens.				
	11 -00.000						o communication via internet.				
	# 540	lucation	APROPIE				de them into small groups. nmunications and the tools needed for them while				
	- "	ctivitie	20	mentio	oning the differ						
		ledge so			Book, EKB.	ook odu	tional ridoos	-05			
	Educational means Computer, schoolbook, educational videos. Learning strategies Brainstorming, dialogue and discussion, research, and evaluration.										
	Warm Up How do you use the Internet to communicate with family and friends? Do you always use the same tools communication?										
	Synchronous communication:										
				 It is a connection that occurs in the real time whit instant responses between two people. Exchanged information or files are through various digital tools. 							
				Synchronous communication means:							
				Video chats: Allows live communication between two or more people via your computer or Phone.							
				Tools: A device with a camera, speakers, application, or a computer software for y-chat.							
		4		Instant messaging: Allows messages to be sent it could include text or also add photos or videos.							
					Internet conne	ection, appli	cation, or a computer software for (IM).				
				Allows	communication		and is on one topic such as virtual chapters.				
					Internet Com (Internet Expl		browsers or application such as le Chrome®)				
	X	ntroduc	2	The second secon	phone applica that provides		ss to different programs such as email,				
00				instant	messaging, ar	nd social med	lia pages,				
					need to be do		installed on your devices,				
					nous connect						
							re an instant response between two or more people. not necessarily at the same time using various digital				
(0,0)				tools.							
				• Email	nous commu :	nication me	anoas:				
60				Allows	sent and rece		es, it is a little formal than (IM). nt agency or an official.	(0)			
							cess a mail site or email application.				
000	E	valuatio	on		ent self-evalua associated w		based on access to the learning				
	A	Sessme	ent		ool Book Que						
			8								

class	Day	Date	Session	Attendance	VV LEGGEL VV	Information and communication technology					
					Them	Theme 1					
\vdash		 			Lesson	Lesson 5					
		Щ		- 22-1	Subject	How to use e-communication					
Learn	ring out	comes	1) Discu 2) Expla	2) Explains how to use e-communication.							
# 544	ducation activitie	WARREN									
	viedze so			ook, EKB.			(0.0)				
All Sylverines in St	cational a ning stra	INDIFESTIVE A		er, schoolbook rming, dialog		nal videos. ussion, role-playing.					
	Warm Uj		How o Use ICT 1	do you show j tools to comm	proper etiqu nunicate:	uette when communicating online?					
Use ICT tools to communicate: Video chatsi: To start the conversation: Create a conversation (be responsible): Create a conversation link, and send it to participants, to allow them to participate. Join a conversation (be a participant): Click on the conversation link and wait for you to be allowed in.											
			- To and and m - The pe our mi	 To answer the conversation: Click on the icon (phone/video), and make sure the microphone and camera are turned on. The person in charge of call may mute people's microphones, and we can any time mute our microphone or turn off the camera. If the camera is on: 							
	4		✓ Ar ✓ Be	 ✓ Anyone who in the call able to see you. ✓ Be sure to wear properly dressed and behave as if you were out in public. 							
	Introduc		• (Chat • You ca	personal information that you don't want to share. (Chat rooms): You can simply type and submit your comments.							
			 Reply to messages. Some participants may reply to your message. Remember that anyone with access to the chat room will be able to read your messages. Be polite, helpful, and positive. 								
			- Click of type ye	nt messaging): on the name of our message, a fun and casual	of the person ; and click on t						
			- You ca - It is in	an use short pl mportant to sho	hrases instea	nd of full sentences, emotions, or image to communicate.					
			or mes	in more formal essaging your te nd an email to	eacher. someone, typ	such as creating an account on the EKB pe their email address into the "To:" field, ion in the "Subject:" line.					
			- Make	sure you use p	proper gramı	mar, be polite and clear, and use greetings and endings. ure the information you send is safe and accurate.					
Evaluation The student self-evaluates himself based on access to the learning outcomes associated with the lesson.											
	ssessme		Solve Scn	nool Book Que	estions p. 20	8, p. 29.					

class	Day	Date	Session	Attendance	window	Information and communication technology				
					Them	Theme 1				
					Lesson Subject	Lesson 6 Online learning environment and sources				
Learn	ing out	comes	1) Expl 2) Disc	ains the purpo usses online lea	ose of online arning sourc	should be able to: learning environments. res. other school subjects.				
456	lucation ectivitie	3	 Take students to the lab and divide them into small groups. Explain the different sources of online learning and show the importance of reliable sources. 							
Knowledge sources School Book, EKB. Educational means Computer, schoolbook, educational videos.										
Educational means Computer, schoolbook, educational videos. Learning strategies Warm Up How have online learning tools helped you learn about a particular topic										
			comm • Teach	unicate with ers can provi	each other, de virtual l	allow teachers and student to no matter where they are. essons and upload quizzes and homework cess they can also send message to their teacher and				
			post their completed assignment like "Edmodo®". There are multiple online learning sources that help to learn about different subject, such as:							
			 Egyptian Knowledge Bank (EBK): Theis is Egypt's premier online library. It contains sources for a variety of subjects. Egyptian Knowledge Bank 							
			- It allows you to research and examine different topics, digital articles, and videos just by clicking on them. (Vlaby): - A virtual lab platform							
	ntroduc	*	- That - It's n	enable studen ot only inform	ts and teach native, but fu	NATIONAL				
			A popu on a va	riety of subject	rce for kids cts, including	to find information g animals, science, history, and geography.				
			- A sp - Prov		ve feature de rld mapping	livered by National Geographic. g tools for students and teachers. e used. NATIONAL GEOGRAPHIC				
			→→ Reliable online digital tools are invaluable sources of information ← The mapmaker interactive is one of the safest sites for research and data collecting.							
Evaluation The student self-evaluates himself based on access to the learning outcomes associated with the lesson. Assessment Solve School Book Questions p. 32, p. 33.										

	class	Day	Date	Session	Attendance	window	Information and communication technology				
						Them	Theme 1				
		 				Lesson	Lesson 7				
			Щ	Little on	- 201 - James	Subject	Planning digital searches				
	Learn	ring out	tcomes	1) Discus 2) Explai	isses reliable and ains how to plan	d unreliable so and conduct o					
	# 544	ducation activitie	WARRE	• Take s	• Explain the elements needed to perform a reliable digital search and identify its steps.						
100	600 COC 11 CO 1000	viedge so cational n	100000000000000000000000000000000000000		ook, EKB.	- 1ation		(00)			
	to American in	nal videos. ussion, research, and exploration.									
	Learning strategies Brainstorming, dialogue and discussion, research, and exploration. Think about what you already know about choosing online sources. Which types of sources would you aim to use in digital search? Which types would you avoid? Explain why.										
				(Plan It will	n before Condu Il help you focu	ucting a digita us on the info	for reliable content (al search), (ormation you're trying to gather. (nat do you already know about it? What else do you want to				
				2) C se	learn about it? T Choose the types sources (audio, vi	Think and writes of online sou videos, and image					
				✓ (Focu	us on the topic ; er your question Reliable source	you're resea ions, evaluate es:	e it. Is it reliable?				
				r w v	The information written, without Unreliable sou	n in presented) t grammar or s urces:	in a professional fashion, and the source information is well-spelling mistakes.				
		Introduc	*	You may find correct information on social media site, such as: (Facebook®, wiki, blogs) you well find information full of opinions errors, and even lies. You must be wary of information you find on these types of sources.							
				- I	Be sure to writ Don't forget to	te down what o cite the sour	t determined that the information is reliable), t you're going to use from the source material. rce information in your note, source in your report.				
				- Aft	se your notes to v	pleted your on	t) lline search, gather your note and reliable source information. ne, this will help you present the information in your report in				
				✓ (Writ		on that introd	nould include: duces the topic of the report. at present the information.				
		thts on the information that you have presented.									
	E	valuatio	on		ent self-evalua s associated w		f based on access to the learning on.				
	A	ssessme	ent		nool Book Que						

		08											
class	Day	Date	Session	Attendance	window	Information and communication technology							
					Them	Theme 1							
					Lesson	Lesson 8							
					Subject	Synchronous and asynchronous communication							
Learn	ing out	comes	Discus Conne	Connected using digital tools.									
Educational Explain the difference between synchronous and asynchronous communication and the most appropriate reason for their selection.													
	ledge so			Book, EKB.									
Educational means Computer, schoolbook, educational videos. Learning strategies Brainstorming, dialogue and discussion, research, and exploration.													
	Varm U			night you c <mark>om</mark> i		the digital search you conducted in Lesson 7 s information to your teacher using the appropriate							
			 The Internet allows us to communicate instantaneously, so we can send messages, and check doubts with people who are not present. But instant communication is not always a good thing, sometimes we need to give ourselves or others time to consider information we 										
			send, our question or their answer so it's important to know when each type of communication is appropriate. Synchronous communication is appropriate: Between friends or close family.										
	atroduc		- Whe	n information	n is urgent n is about d	or needs to be transmitted quickly. lay-to-day matters. equire very much thought or preparation.							
			- amo	ng people wh n the inform:	o don't kno ation is imp	on is appropriate: ow each other well. oortant but not urgent. out sensitive or complex matters.							
					requires th	nought and preparation.							
					online lea ous and Asy	rning environments include rnchronous methods of communication, ect tool depending on the situation.							
11.5	valuatio	9.50	outcomes	associated w	ith the lesso								
			Soive Sch	ool Book Quo	ESUOIIS P. 40	0, p. 41.							

			DS.									
	class	Day	Date	Session	Attendance	window	Information and communication technology					
						Them	Theme 4					
						Lesson	Lesson 1					
						Subject	Explorer in Action					
Learning outcomes At the end of the lesson the pupil should be able to: 1) Describes different types of software and how they are used. 2) Discusses the role of different digital applications. 3) Identifies ways in which ICT tools help are wildlife.												
	 Take students to the lab and divide them into small groups. Getting to know the scientist "Gautam Shah" and how he uses augmented reality technology through the "Internet of Elephants" organization. 											
	Educa	ledge so utional i	means	Comput		ook, educ	ational videos. discussion, research, and exploration.					
		ing stre Varm U		• What	do scientists	want to fine	d out when they look for animals in the wild? gy in their work, such as scientist "Gautam Shah"					
				He is aFoundHe de	an "IT special ler of the/" In cided to use I	ist" in many iternet of El his skills to I	countries around the world. ephants" organization. make a positive impact on wildlife. at technology could be used for wildlife					
		1		conve	rsation, it is (lieves in using	protecting a	animals in their natural habitats). y and online games to bring wildlife into people's set up the organization.					
				 Uses gr 		ng digital to	nization: ols to connect people with wildlife around the world. nal conservation organizations from all over the					
		ntroduc	e	The org		ates unique	pllect by, (GPS) to create interactive online games. mobile games, using:					
				• Let	s you virtuall	y see the re	people to interact with amazing creatures. al environment of the things you would like to see.					
				and • The	digital tools games tell th	made speci ne story of i	on about them through screen fically for this purpose. Individual animal and players					
				• The	•	mes enable	you can interact with s close to your country or far away.					
					e start of a	new appr	oach to engaging the public with wildlife.					
	E	valuatio	M		nt self-evalua associated w		based on access to the learning on.					
	A	sessme	nt	Solve Sc	hool Book	Questions	p. 48, p. 49.					
			98									

Class Day Date Session Attendence window Communication technology Them Theme A Lesson L												
Lesson Lesson 2 Subject Problem-solving skills	class	Day	Date	Session	Attendance	window	NA CARL BRANCH COLUMN					
Learning estimates Learnin						W WESTER	- I HE HIE -					
Learning outcomes 1. Explains the steps involved in problems solving. 2. Discusses how to break down big problems into smaller sections. 3. Analyzes and solve a problem. Educational exciteds activities Explain the steps to solving the problem, with some examples of the previously studied problems. Explain the steps to solving the problem, with some examples of the previously studied problems. Exchool Book, EKB. Computer, Schoolbook, Educational videos. Brainstorming, dialogue and discussion, research, and exploration. Think about a problem you had with your phone or any other digital device. What was it? Were you able to solve the problem? If so, how? If not, what did you learned? Problem solving steps: Solving a problem can sometimes seem difficult, so you must take steps to anake problem-solving easier. Here are some common steps diad you can take: Construct a Hypothesis: Affspothesis is an educated guess about how things work. It is an attempt to answer your question with an explanation that can be trusted. Test your Hypothesis: Bon't conduct which is not safe. Was your test to answer your question with an explanation that can be trusted. Test your Hypothesis: Bon't conduct which is not safe. Was your test wereseful? If not, don't worry, we learn from our mistakes. What did you learn? How can'this help you make your next Hypothesis? Breaking down problems into smaller sections: Some ICT problems may be more complicated than others. Work on solving such problems in small section, step-by-step the real-world problem below. If you have a group of people solve a problem, assign each person one section. Problem solving such problems in small section, step-by-step the real-world problem below. The student self-availables himself based on access to the learning.						H-16-20-20 HHHR	I ILVANIE C					
1) Explains the steps involved in problems solving. 2) Discusses how to break down big problems into smaller sections. 3) Analyzes and solve a problem. • Take students to the lab and divide them into small groups. • Explain the steps to solving the problem, with some examples of the previously studied problems. School Book, EKB. **Educational means** Computer, Schoolbook, Educational videos. **Brainstorming, dialogue and discussion, research, and exploration. • Think about a problem you had with your phone or any other digital device. What was it? • Were vous the problem? If so, how? If not, what did you learned? **Problem solving a sproblem can sometimes seem difficult, so you must take steps to make problem solving easier. Here are some common steps that you can take: • Construct a Hypothesis: A hypothesis is an educated guess about how things work. It is an attempt to answer your question with an explanation that can be trusted. • Test your Hypothesis: A trypothesis: Don't conduct which is not safe, Was your test successful? If not, don't worry, we learn from our mistakes. What did you learn? How can this help you make your next Hypothesis? **Breaking down problems into smaller sections:* Some ICT problems may be more complicated than others. • Work on solving such problems in small section, step-by-step the real-world problem below. • If you have a group of people solve a problem, assign each person one section. **Pack them down just like the real-world example above. **The student self-evaluates himself based on access to the learning.						Subject	Problem-solving skills					
• Explain the steps to solving the problem, with some examples of the previously studied problems. **Educational means** **Computer, Schoolbook, Educational videos.** **Learning strategies** **Brainstorning, dialogue and discussion, research, and exploration.** • Think about a problem you had with your phone or any other digital device. What was it? • Were you able to solve the problem? If so, how? If not, what did you learned? **Problem solving steps:** Solving a problem can sometimes seem difficult, so you must take steps to make problem-solving easier. Here are some common steps that you can take: - Construct a Hypothesis: A Hypothesis is an educated guess about how things work. It is an attempt to answer your question with an explanation that can be trusted. - Test your Hypothesis: Don't conduct which is not safe. - Was your test successful? If not, don't worry, we learn from our mistakes. What did you learn? How can'this help you make your next Hypothesis? **Breaking down problems into smaller sections:** Some ICT problems may be more complicated than others. - Work on solving such problem below. - If you have a group of people solve a problem, assign each person one section. - **Break them down just like the real-world example above. - The student self-avaluates himself based on access to the learning.	1) Explains the steps involved in problems solving. 2) Discusses how to break down big problems into smaller sections.											
Educational means Learning strategies Brainstorming, dialogue and discussion, research, and exploration. Think about a problem you had with your phone or any other digital device. What was it? Wern Up Were you able to solve the problem? If so, how? If not, what did you learned? Problem solving steps: Solving a problem can sometimes seem difficult, so you must take steps to make problem-wolving easier. Here are some common steps that you can take: Construct a Hypothesis: A Hypothesis is an educated guess about how things work. It is an attempt to answer your question with an explanation that can be trusted. Test your Hypothesis: Don't conduct which is not safe, Was your test successful? If not, don't worry, we learn from our mistakes. What did you learn? How can this help you make your next Hypothesis? Breaking down problems into smaller sections: Some ICT problems may be more complicated than others. Work on solving such problem below. If you have a group of people solve a problem, assign each person one section. **Break them down just like the real-world example above. The student self-evaluates himself based on access to the learning.	#20	KRAU GRAKERY	WHERE	TakeExpla	students to ain the step	the lab a s to solvin	nd divide them into small groups. If the problem, with some examples of the					
Brainstorting, dialogue and discussion, research, and exploration. Think about a problem you had with your phone or any other digital device. What was it? Wern Up Wern Up Problem solving steps: Solving a problem can sometimes seem difficult, so you must take steps to make problem solving easier. Here are some common steps that you can take: Construct a Hypothesis: A Hypothesis is an educated guess about how things work. It is an attempt to answer your question with an explanation that can be trusted. Test your Hypothesis: Don't conduct which is not safe. Was your test successful? If not, don't worry, we learn from our mistakes. What did you learn? How can'this help you make your next Hypothesis? Breaking down problems into smaller sections: Some ICT problems may be more complicated than others. Work on solving such problems in small section, step-by-step the real-world problem below. If you have a group of people solve a problem, assign each person one section. Break them down just like the real-world example above.				School E	Book, EKB.							
• Think about a problem you had with your phone or any other digital device. What was it? • Were you able to solve the problem? If so, how? If not, what did you learned? Problem solving steps: Solving a problem can sometimes seem difficult, so you must take steps to make problem-solving easier. Here are some common steps that you can take: - Construct a Hypothesis: A Hypothesis is an educated guess about how things work. It is an attempt to answer your question with an explanation that can be trusted. - Test your Hypothesis: Don't conduct which is not safe. - Was your test successful? If not, don't worry, we learn from our mistakes. What did you learn? How can'this help you make your next Hypothesis? Breaking down problems into smaller sections: Some ICT problems may be more complicated than others. - Work on solving such problems in small section, step-by-step the real-world problem below. - If you have a group of people solve a problem, assign each person one section. - When solving larger ICT problems - Reak them down just like the real-world example above. The student self-avaluates himself based on access to the learning.												
device. What was it? Were you able to solve the problem? If so, how? If not, what did you learned? Problem solving steps: Solving a problem can sometimes seem difficult, so you must take steps to make problem-solving easier. Here are some common steps that you can take: Construct a Hypothesis: A Hypothesis is an educated guess about how things work. It is an attempt to answer your question with an explanation that can be trusted. Test your Hypothesis: Don't conduct which is not safe. Was your test successful? If not, don't worry, we learn from our mistakes. What did you learn? How can'this help you make your next Hypothesis? Breaking down problems into smaller sections: Some ICT problems may be more complicated than others. Work on solving such problems in small section, step-by-step the real-world problem below. If you have a group of people solve a problem, assign each person one section. The student self-evaluates himself based on access to the learning.	#488FFF	mig sur	negres									
Solving a problem can sometimes seem difficult, so you must take steps to make problem-solving easier. Here are some common steps that you can take: - Construct a Hypothesis: A Hypothesis is an educated guess about how things work. It is an attempt to answer your question with an explanation that can be trusted. - Test your Hypothesis: Don't conduct which is not safe. - Was your test successful? If not, don't worry, we learn from our mistakes. What did you learn? How can this help you make your next Hypothesis? Breaking down problems into smaller sections: Some ICT problems may be more complicated than others. - Work on solving such problems in small section, step-by-step the real-world problem below. - If you have a group of people solve a problem, assign each person one section. - When solving larger ICT problems - Break them down just like the real-world example above.		Varm U	TR.	devic • Were	e. What wa you able to	s it? o solve the	e problem? If so, how?					
A Hypothesis is an educated guess about how things work. It is an attempt to answer your question with an explanation that can be trusted. Test your Hypothesis: Don't conduct which is not safe. Was your test successful? If not, don't worry, we learn from our mistakes. What did you learn? How can this help you make your next Hypothesis? Breaking down problems into smaller sections: Some ICT problems may be more complicated than others. Work on solving such problems in small section, step-by-step the real-world problem below. If you have a group of people solve a problem, assign each person one section. Break them down just like the real-world example above.				Solving a problem-	problem can solying easier	sometimes . Here are s						
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Break them down just like the real-world example above. The student self-evaluates himself based on access to the learning.				Some IC	T problem ork on solvin p-by-step the	s may be i g such prob e real-world	more complicated than others. elems in small section, problem below.					
example above.				- If:	-0 >>	When solv	ving larger ICT problems ← ← ????????					
The student self-evaluates himself based on access to the learning				L			example above.					
outcomes associated with the lesson.	105	Nada na ada na	200	outcomes	associated w	ith the lesso	on.					
Assessment Solve School Book Questions p. 52, p. 53.	4	ssessme		Solve Sc	nool Book	Questions	p. 52, p. 53.					

	class	Day	Date	Session	Attendance	window	Information and communication technology					
						Them	Theme 4					
						Lesson	Lesson 3					
	Subject Presenting information to others											
	At the end of the lesson the pupil should be able to: 1) Discusses how to best present information to others											
	Learn	1) Discusses how to best present information to others. 2) Explains the necessary digital needs of simple projects. 3) Discusses basic design concepts.										
	 Take students to the lab and divide them into small groups. Explain the digital tools and concepts needed to present and display information. 											
Knowledge sources School Book, EKB. Educational means Computer, schoolbook, educational videos.												
Educational means Computer, schoolbook, educational videos. Learning strategies Brainstorming, dialogue and discussion, research, and exploration.												
	Warm Up Think about presentations your teachers and classmates given in the class? Was there one you particularly enjoy? What kept you interested?											
				Digital tools to presenting information: - When you are presenting information, think about the digital tools you'll need to present it, Such as a digital poster or a billboard. - You'll need to use software that will allows you to create it, (Microsoft Office 365), which includes different options, to choose from: - (PowerPoint*) (Publisher*) (Word*). - To access the (Microsoft Office 365) bundle, make sure								
				your o	ligital comput ating your po tins:	er is up to da oster or bill	de to supports the software. board, think about the following digital concepts: leges of the poster or the billboard.					
		ntroduc		• It • A • Font	's important to 25 mm margi size and type	o crowd the on will help d	edge of a poster or billboard, it will appear of cramped. esign a good poster. e able to easily see your information.					
					If you choos If you choos information	se a small for se a font size	nt size, they will have to strain to read the information. that's too big, you'll have to limit the amount of nt size that's easy to read.					
				• The Sor to 1	ere are many f netimes simple read.	fonts you car						
	 Colors: Choose the colors that get your message across, choose color combinations that match. It's better not to use more than 3 colors in a poster and take into consideration the color of the background when choosing the font color. 											
	 Image: They should also make sense in terms the content you are share, Use clear, good-quality, and appropriate image. 											
Evaluation The student self-evaluates himself based on access to the learning outcomes associated with the lesson.												
	Assessment Solve School Book Questions p. 56, p. 57.											

	class Day	Date	Session	Attendance	window	Information and communication technology					
					Them	Theme 4					
					Lesson	Lesson 4					
					Subject	Digital applications					
	Learning ou	tcomes	1) Exp 2) Exp 3) Exp	lains how to u lains some us lains how to u	use reliable es and feati use Word a	upil should be able to: sources to conduct a search for information. ures of Word and Excel. nd Excel to present and share information.					
	Educatio activitie	NO ROLL	• Explai		es when coll	de them into small groups. ecting information and taking advantage of Word and					
	Knowledge a			ook, EKB.							
	Educational : Learning stre	CHILD CONTROL OF		r, schoolbook ming, dialog		al videos. ussion, research, and exploration.					
	Warm l		What	animals and	plants are i	avior have on the environment? mpacted in your area by human behavior?					
			•\ Pr	<u>int:</u> Books, ar	ticles, newsp	to use a variety of sources, including: apers, encyclopedias					
				th	e EKB and s	ne, specialized websites, e-learning sites, imilar authoritative orline sources. have experience,					
			are affected by, or who have studied the topic. Evaluating sources:								
			The sour	e will tell you		ole the information is and if you can trust the					
			- Is the	e author a res	pectable per	ways to evaluate the source, these including:					
			that	you can check	k?	nce and cite other sources of information					
			- Doe	v current is the s the source st	ate opinions	or facts?					
	Introdu	ce		ne information crosoft (Exce	<i>r</i> 1	rith a bias or unbiased?					
			- To	record the da	ata you coll	ected, you'll need one program					
			- Exc	cel allows you	ı to create a	g information. spreadsheet with as many columns					
			- Exc		ed to preser	nt numbers as the program					
				add up num cel is a wonde		atically. collect information to collect your ideas.					
				crosoft (word							
			Wo	ord is most co	mmonly us	your ideas in a variety of ways, ed to write out what you want.					
						You can change the design, add photos, sites or information online.					
(0.0)	Evaluati	on		ent self-evalua associated w		based on access to the learning					
	Assessm	ent				p. 60, p. 61.					

class	Day	Date	Session	Attendance	window	Information and communication technology					
					Them	Theme 4					
					Lesson	Lesson 5					
					Subject	Algorithms					
Learning outcomes			At the end of the lesson the pupil should be able to: 1) Discusses the concept of algorithms. 2) Explains how a search engine uses algorithms. 3) Explains how to solve a problem using an algorithms.								
Educational activities			TakeExpla	students to	the lab a	nd divide them into small groups. gorithms with giving some practical					
	ledge so		School E	Book, EKB.							
	itional i ing stre	N 10 10 10 10 10 10 10 10 10 10 10 10 10		Computer, schoolbook, educational videos.							
	Varm U		 Brainstorming, dialogue and discussion, research, and exploration. How dose following a process help you solve a problem? 								
11 mm ma 3-2			We learned how to use search engines to gather information online. Every time you type the keywords into a search engine, the engine uses algorithms to provide results and help it								
	4		to decide which result will be more relevant to you. (Algorithms):								
			It is a series of steps that explain how to explain who to do a task, such as: • If you're using a search engine to find directions to a place, it will use a database of names and information from digital maps to provide you the results.								
	ntroduc		 When you make a meal, you follow a recipe which is a type of algorithm! The recipe includes a set of instructions that will successfully lead you to make that meal. Routine work such as cleaning your room, is an algorithm. When you do a word problem in math class, you will often have to break the question down, you will solve it in a series of steps. These steps are the guidelines 								
			needed to solve the problem. → Computers and applications use algorithms ← to perform specific tasks. When you input the keywords, you are searching for, The search engine takes steps to provide results								
			→ If your wording is not specific enough ← the engine's algorithm may not be entirely accurate. The student self-evaluates himself based on access to the learning								
#25	valuatio	200	outcomes	associated w	ith the lesso	on.					
	Sessme		Solve Sc	nooi Book	Questions	p. 64, p. 65.					
	10=	98		08	90						

	class	Day	Date	Session	Attendence	window	Information and communication technology						
						Them	Theme 4						
						Lesson	Lesson 6						
						Subject	The principles of coding						
	Learning outcomes			At the end of the lesson the pupil should be able to: 1) Discusses the concept of coding. 2) Explains what he can create using coding programming. 3) Discusses how coding is another example of a problem-solving.									
	Educational activities			• Explai		cept of prog	ivide them into small groups. gramming, introducing the website (Code.org) and						
		ledge so stional s			Book, EKB. er, schoolb		ational videos.						
	Learn	ing stre	tegies		Brainstorming, dialogue and discussion, Role-playing.								
	Į.	Varm U	P	What types of animations or video games do you prefer or attract your attention? Explain why.									
				Think about online animations and movies you've viewed, and the online games you've played, they were created using coding.									
			(Coding): It is the writing of multiple algorithms to create a complete program.										
		4		(Code): Enables y	ou to create a	animations,	movies, and games using code, and create them in						
					coding langua								
						le.org)Th	mputers speak different languages (at Can help you learn to code,						
	I	ntroduc	e	• Have	vou ever cre		ferent coding languages e, and provided instructions to solve it?						
				• Instr	uctions for ar	naze are lik	ce Instructions in computer programs. n use to get through the maze.						
				• The s	steps contain	the number	r of spaces to take, v these steps to get through the maze!						
				Ma			reate mazes on (Code.org) — e of things you can create, using coding.						
				UP 2 LEFT 1 UP 1 LEFT 2 DOWN 2 LEFT 1 UP 3 UP 3									
				RI	GHT 1 UP 2	LEFT 1	UP2 RIGHT 3 UP1						
	773	onla ad		The stude	ent self-evalua	ates himself	based on access to the learning						
	115	valuatio isessme	P.47.05	outcomes	associated w	ith the lesso							
	(0,0)												
							•						

	class	Day	Date	Session	Attendance	window	Information and communication technology				
						Them	Theme 4				
						Lesson	Lesson 7				
						Subject	Graphic art				
	Learning outcomes Educational activities			At the end of the lesson the pupil should be able to: 1) Discusses how to use Graphic programs. 2) Discusses how to add some visuals (such as photos, illustrations, texts) to presentations. 3) Explains how to add and edit photos. • Take students to the lab and divide them into small groups. • Explanation of the steps to open the Paint program and how to use it							
				and b	enefit fron	ı it.					
		ledge so utional i			Book, EKB.		ational videos				
850		ing stra	THE REAL PROPERTY.		Computer, schoolbook, educational videos. Brainstorming, dialogue and discussion, Role-playing.						
	K	Varm U	T _R	How do you think visuals aids (like drawings and photos) can help presentations?							
				 It's easy to create your own drawing or edit image on computers. A popular graphic editor (Microsoft Paint). To open the program, click on the (Accessories) in the (Start-up menu). find paint and click on it. you'll notice that the top of the screen is like (Word) processor and (Excel). There's (menu bar) and (toolbox). The menu bar includes options for opening and saving files, The editing features on the menu bar include the ability to edit colors and images. 							
	Introduce			The toolbox includes all the tools that you'll need to make your drawing, including:							
	*	Maria Dimension		Eraser	Pencil and Tex brush	t Rectangle	line and curve Airbrush Ellipses Magnifier Fill Se	elect			
					can edit photo						
				 ✓ Fill colors using the color options. ✓ Select area of the photo to use in your drawing by (cropping). ✓ Add Text to a photo. ✓ Change the size or direction of the photo. 							
				• (Microsoft Word) also offer graphic tools to create a graphic, Click on the (Insert Menu bar), to see the different options, such as: ✓(Shapes). ✓ (Icons). ✓ (3D models). ✓ (Smart Art).							
	10	Evaluation The student self-evaluates himself based on access to the learning outcomes associated with the lesson. Assessment Solve School Book Questions p. 72, p. 73.									

		98									
class	Day	Date	Session	Attendence	window Them	Information and communication technology Theme 4					
					Lesson Subject	Lesson 8 Create a PowerPoint presentation					
Learning outcomes			At the end of the lesson the pupil should be able to: 1) Discusses the elements of a presentation. 2) Discusses the PowerPoint features. 3) Present information on a specific topic using PowerPoint.								
W S R	iucation activitie	AT TOTAL CO.	 Take students to the lab and divide them into small groups. Explain the steps to open the program with an explanation of how to deal with the various menus and tools. 								
Enowledge sources Educational means Learning strategies			_	r, schoolbook		al videos. ussion, research, and exploration.					
	Warm Uj		• What	are the eleme	ents of a go crosoft Pow	od presentation? erPoint®) to create presentations that include text,					
			animations, images, and special effects. To create a presentation using (Microsoft PowerPoint®): Click on the presentation icon on your computer. Then click (blank presentation).								
			 The program's opening screen: ✓ At the top you will see a menu bar with multiple (tabs). ✓ Each tab contains a set of tools that you can use to create your presentation. ✓ (A Slide) that will instruct you to click and type a title. 								
	4		✓ T • <u>Slide</u>	ype the inform	mation in tl	the title and subtitle of your presentation. he text boxes. ontains text and image.					
			• click	the left side of preview image (new slide) to a	of the screen ge, of each sli add another	you will see a (thumbnail), ide you're creating. slide to your presentation,					
	ntroduc		• Addi	ng text: click I like to use, t	on the text ype your te						
			make ✓ (De	your presentesign). 🗸 (1	tation stand Draw).	owerPoint includes numerous visual tools to help lout (Transitions). (Animations). (Slide show). icking the "view show" icon or by clicking					
			• Inser Choose	(F5) key in the ting pictures: see the options y	he keyboar click on ins you need fro	d. sert, then pictures. m the menu bar,					
			once you choose your image, drag it with your mouse into the slide. • Keep the following features in mind when creating your presentation: ✓ Avoid wordy paragraphs or sentences. ✓ Be sure to use a font size and style is readable.								
			√ τ								
117	valuatio	241	The student self-evaluates himself based on access to the learning outcomes associated with the lesson. Solve School Book Questions p. 76, p. 77.								
	sessme		Solve SC	TOOL DOOK	Questions Questions						